MODIS TECHNICAL TEAM MEETING

July 7, 1994

The MODIS Technical Team Meeting was chaired by Bill Barnes. Present were Locke Stuart, Janine Harrison, Dick Weber, John Bauernschub, Al Fleig, and David Herring.

1.0 SCHEDULE OF EVENTS

July 15	**Semi-Annual Reports due to Barbara Conboy**
Sept. 20 - 22	SDST Simulation Data Workshop, Flathead Lake, MT
Oct. 18	Calibration Working Group, Greenbelt Marriott
Oct. 19 - 21	MODIS Science Team Meeting, Greenbelt Marriott

2.0 MINUTES OF THE MEETING

2.1 Two MODIS Bands Don't Meet Specs

Barnes announced that SBRC has begun assembling the focal planes for the MODIS engineering model (EM). According to Barnes, SBRC has discovered that two of MODIS' VIS bands—9 and 11— do not meet their specifications. The spec for the width of Band 11 (531 nm) is 10 nm ± 1.9 nm; however, SBRC reports that the actual width is 12.0 nm, which is 0.1 nm more than spec. Barnes stated that, after consulting Howard Gordon and Ed Knight, he has sent a letter to SBRC's Project Office stating that the Band 11 performance is acceptable.

Barnes reported that for Band 9 (443 nm), the edge slope of its spectral response is greater than it should be. The spec was 5.5 nm but the actual performance is 7.2 nm. Barnes showed viewgraphs illustrating spectral profile curves of Bands 9 and 11, as well as other bands (see Attachments 1 - 3).

2.2 Registering 1000-m, 500-m, and 250-m Bands

Barnes addressed a question raised prior to the meeting by Fleig on MODIS plans to co-register MODIS bands with differing resolutions. Barnes stated that a preliminary examination of SBRC's sampling strategy for bands of differing spatial resolution did reveal a possible problem in band-to-band registration and that he would report on the problem by the next Technical Team Meeting.

2.3 EOSDIS System Design Review (SDR)

Fleig reported that he attended the EOSDIS SDR. He feels that the Hughes Architecture Team did a good job responding to the scientific requirements as given to them.

2.4 Flight Operations Team

Barnes announced that MCST is putting together an Instrument Operations Team (IOT) to oversee flight operations. Fleig asked who will answer the question of what happens if an instrument malfunctions—e.g. should it be turned off, or be operated at a different temperature? Fleig pointed out that flight operations management is not clearly spelled out in the MODIS Team Leader Working Agreement.

2.5 MAST Announcements

Harrison announced that MAST has been asked by the MTPE Office (Code 170) and Dick Weber to provide detailed budget information for the MODIS Science Team through FY 2000. She and Stuart will work closely together over the next week to generate the budget information to present to the MODIS Team Leader for review prior to submitting it to the MTPE Office and Weber.

3.0 ACTION ITEMS

3.1 Action Items Carried Forward

1. *Barnes:* At Salomonson's request, explore the possibility of EMI effects on MODIS data as a result of direct continuous broadcast.
2. *Fleig & Herring*: Review the MODIS brochure and recommend changes / alternatives [Ongoing; first draft is complete and being reviewed].
3. *Barnes*: Investigate the procedure for redesignation of channels for night data return (to Kaufman). [Barnes has determined that MODIS channels can be redesignated for night data return; however, this AI is still open.]
4. *Fleig and Ungar*: Interact with the group leaders prior to developing a MODIS data simulation plan for review at the next Science Team Meeting, due July 4.
5. *Masuoka*: Provide Gordon's Water Leaving Radiance software to ESDIS project as a test case for the utility of massively parallel processing after a beta delivery is received from the Oceans Team. [SDST is waiting for delivery of the Ocean Group's beta software.]

3.2 Completed Action Items

1. *Barker*: Forward information on MODIS' spectral bands to Hugh Kieffer.
2. *Salomonson*: Discuss the current MODIS funding shortage with Michael King.

4.0 ATTACHMENTS

NOTE: All attachments referenced below are maintained in MODARCH and are available for distribution upon request. Please contact David Herring, MAST Technical Manager, at (301) 286-9515, or e-mail herring@ltpsun.gsfc.nasa.gov if you desire copies of any attachments.

1. Spectral Profile Curves, by John Barker
2. TOA Solar, by Doug Hoyt
3. Solar Spectra, by Phil Slater

5.0 RECENT MODIS DOCUMENTS

Note: All recent MODIS documents are/will be maintained in MODARCH. If you would like access to or information about MODARCH, please contact the MODARCH System Administrator, Michael Heney, at (301) 286-4044 or via e-mail at mheney@ltpsun.gsfc.nasa.gov.

1. Geolocation ATBD, by SDST. Distribution to external reviewers July 15.